

Project Name: OPTION 1 TRACK  
 Description: option 1 track alignment  
 Horizontal Alignment Name: SB TRACK  
 Description: OPTION 1 SB TRACK  
 Style: Default

	STATION	NORTHING	EASTING
Element: Linear			
POB ( )	2065+00.00	1821144.03	6695162.10
TS ( )	2106+38.05	1818193.64	6698063.60
Tangent Direction:	S 44^31'17" E		
Tangent Length:	4138.05		
Element: Cosine			
TS ( )	2106+38.05	1818193.64	6698063.60
SPI ( )	2120+43.42	1817191.63	6699049.00
SC ( )	2126+38.05	1816752.93	6699450.64
Entrance Radius:	0.00		
Exit Radius:	28000.00		
Length:	2000.00		
Angle:	2^02'47" Right		
Constant:	7483.31		
Long Tangent:	1405.36		
Short Tangent:	594.79		
Long Chord:	1999.88		
Xs:	1999.77		
Ys:	21.24		
P:	3.38		
K:	999.98		
Tangent Direction:	S 44^31'17" E		
Radial Direction:	S 45^28'43" W		
Chord Direction:	S 43^54'46" E		
Radial Direction:	S 47^31'30" W		
Tangent Direction:	S 42^28'30" E		
Element: Circular			
SC ( )	2126+38.05	1816752.93	6699450.64
PI ( )	2137+95.07	1815899.55	6700231.94
CC ( )		1797845.41	6678798.63
CS ( )	2149+50.77	1814984.62	6700940.16
Radius:	28000.00		
Delta:	4^43'57" Right		
Degree of Curvature(Arc):	0^12'17"		
Length:	2312.71		
Tangent:	1157.01		
Chord:	2312.06		
Middle Ordinate:	23.87		
External:	23.89		
Tangent Direction:	S 42^28'30" E		
Radial Direction:	S 47^31'30" W		
Chord Direction:	S 40^06'32" E		
Radial Direction:	S 52^15'27" W		
Tangent Direction:	S 37^44'33" E		
Element: Cosine			
CS ( )	2149+50.77	1814984.62	6700940.16
SPI ( )	2155+45.55	1814514.28	6701304.24
ST ( )	2169+50.77	1813372.96	6702124.25
Entrance Radius:	28000.00		
Exit Radius:	0.00		
Length:	2000.00		
Angle:	2^02'47" Right		
Constant:	7483.31		
Long Tangent:	1405.36		
Short Tangent:	594.79		
Long Chord:	1999.88		
Xs:	1999.77		
Ys:	21.24		
P:	3.38		
K:	999.98		
Tangent Direction:	S 37^44'33" E		
Radial Direction:	S 52^15'27" W		
Chord Direction:	S 36^18'17" E		
Radial Direction:	S 54^18'13" W		
Tangent Direction:	S 35^41'47" E		
Element: Linear			
ST ( )	2169+50.77	1813372.96	6702124.25
TS ( )	2280+10.37	1804391.22	6708577.40

Tangent Direction:	S 35^41'47" E		
Tangent Length:	11059.60		

Element: Cosine

TS ( )	2280+10.37	1804391.22	6708577.40
SPI ( )	2294+15.73	1803249.89	6709397.41
SC ( )	2300+10.37	1802754.77	6709727.00
Entrance Radius:	0.00		
Exit Radius:	28000.00		
Length:	2000.00		
Angle:	2^02'47" Right		
Constant:	7483.31		
Long Tangent:	1405.36		
Short Tangent:	594.79		
Long Chord:	1999.88		
Xs:	1999.77		
Ys:	21.24		
P:	3.38		
K:	999.98		
Tangent Direction:	S 35^41'47" E		
Radial Direction:	S 54^18'13" W		
Chord Direction:	S 35^05'16" E		
Radial Direction:	S 56^21'00" W		
Tangent Direction:	S 33^39'00" E		

Element: Circular

SC ( )	2300+10.37	1802754.77	6709727.00
PI ( )	2347+70.62	1798792.15	6712364.74
CC ( )		1787239.46	6686418.74
CS ( )	2394+40.72	1794180.48	6713544.78
Radius:	28000.00		
Delta:	19^17'50" Right		
Degree of Curvature(Arc):	0^12'17"		
Length:	9430.35		
Tangent:	4760.26		
Chord:	9385.84		
Middle Ordinate:	396.08		
External:	401.76		
Tangent Direction:	S 33^39'00" E		
Radial Direction:	S 56^21'00" W		
Chord Direction:	S 24^00'05" E		
Radial Direction:	S 75^38'50" W		
Tangent Direction:	S 14^21'10" E		

Element: Cosine

CS ( )	2394+40.72	1794180.48	6713544.78
SPI ( )	2400+35.50	1793604.26	6713692.22
ST ( )	2414+40.72	1792231.19	6713991.77
Entrance Radius:	28000.00		
Exit Radius:	0.00		
Length:	2000.00		
Angle:	2^02'47" Right		
Constant:	7483.31		
Long Tangent:	1405.36		
Short Tangent:	594.79		
Long Chord:	1999.88		
Xs:	1999.77		
Ys:	21.24		
P:	3.38		
K:	999.98		
Tangent Direction:	S 14^21'10" E		
Radial Direction:	S 75^38'50" W		
Chord Direction:	S 12^54'54" E		
Radial Direction:	S 77^41'36" W		
Tangent Direction:	S 12^18'24" E		

Element: Linear

ST ( )	2414+40.72	1792231.19	6713991.77
TS ( )	2457+98.83	1787973.22	6714920.67
Tangent Direction:	S 12^18'24" E		
Tangent Length:	4358.12		

Element: Cosine

TS ( )	2457+98.83	1787973.22	6714920.67
SPI ( )	2472+04.19	1786600.15	6715220.21
SC ( )	2477+98.83	1786023.93	6715367.64
Entrance Radius:	0.00		
Exit Radius:	28016.50		
Length:	2000.00		

Angle:	2^02'42"	Left		
Constant:	7485.52			
Long Tangent:	1405.36			
Short Tangent:	594.79			
Long Chord:	1999.88			
Xs:	1999.77			
Ys:	21.23			
P:	3.38			
K:	999.98			
Tangent Direction:	S 12^18'24"	E		
Radial Direction:	S 77^41'36"	W		
Chord Direction:	S 12^54'53"	E		
Radial Direction:	S 75^38'54"	W		
Tangent Direction:	S 14^21'06"	E		

Element: Circular

SC (	)	2477+98.83	1786023.93	6715367.64
PI (	)	2509+87.66	1782934.62	6716158.07
CC (	)		1792968.47	6742509.82
CS (	)	2541+49.15	1780101.96	6717622.53
Radius:		28016.50		
Delta:	12^59'13"	Left		
Degree of Curvature(Arc):		0^12'16"		
Length:		6350.32		
Tangent:		3188.83		
Chord:		6336.74		
Middle Ordinate:		179.73		
External:		180.89		
Tangent Direction:		S 14^21'06"	E	
Radial Direction:		S 75^38'54"	W	
Chord Direction:		S 20^50'42"	E	
Radial Direction:		S 62^39'41"	W	
Tangent Direction:		S 27^20'19"	E	

Element: Cosine

CS (	)	2541+49.15	1780101.96	6717622.53
SPI (	)	2547+43.94	1779573.60	6717895.68
ST (	)	2561+49.15	1778349.04	6718585.23
Entrance Radius:		28016.50		
Exit Radius:		0.00		
Length:		2000.00		
Angle:	2^02'42"	Left		
Constant:		7485.52		
Long Tangent:		1405.36		
Short Tangent:		594.79		
Long Chord:		1999.88		
Xs:		1999.77		
Ys:		21.23		
P:		3.38		
K:		999.98		
Tangent Direction:		S 27^20'19"	E	
Radial Direction:		S 62^39'41"	W	
Chord Direction:		S 28^46'32"	E	
Radial Direction:		S 60^36'59"	W	
Tangent Direction:		S 29^23'01"	E	

Element: Linear

ST (	)	2561+49.15	1778349.04	6718585.23
EQNBK (	)	2565+87.02	1777967.50	6718800.07
EQNAHD (	)	A 2566+35.88	1777967.50	6718800.07
TS (	)	A 2599+58.84	1775072.03	6720430.50
Tangent Direction:		S 29^23'01"	E	
Tangent Length:		3760.82		

Element: Cosine

TS (	)	A 2599+58.84	1775072.03	6720430.50
SPI (	)	A 2613+64.20	1773847.46	6721120.04
SC (	)	A 2619+58.84	1773339.94	6721430.19
Entrance Radius:		0.00		
Exit Radius:		28016.50		
Length:		2000.00		
Angle:	2^02'42"	Left		
Constant:		7485.52		
Long Tangent:		1405.36		
Short Tangent:		594.79		
Long Chord:		1999.88		
Xs:		1999.77		
Ys:		21.23		
P:		3.38		

K: 999.98  
 Tangent Direction: S 29^23'01" E  
 Radial Direction: S 60^36'59" W  
 Chord Direction: S 29^59'30" E  
 Radial Direction: S 58^34'17" W  
 Tangent Direction: S 31^25'43" E

Element: Circular

SC ( )	A 2619+58.84	1773339.94	6721430.19
PI ( )	A 2666+05.40	1769375.07	6723853.08
CC ( )		1787948.78	6745336.38
CS ( )	A 2711+68.14	1766404.65	6727426.20

Radius: 28016.50  
 Delta: 18^50'01" Left

Degree of Curvature(Arc): 0^12'16"  
 Length: 9209.30  
 Tangent: 4646.56  
 Chord: 9167.89  
 Middle Ordinate: 377.55  
 External: 382.70  
 Tangent Direction: S 31^25'43" E  
 Radial Direction: S 58^34'17" W  
 Chord Direction: S 40^50'44" E  
 Radial Direction: S 39^44'15" W  
 Tangent Direction: S 50^15'45" E

Element: Cosine

CS ( )	A 2711+68.14	1766404.65	6727426.20
SPI ( )	A 2717+62.92	1766024.42	6727883.57
ST ( )	A 2731+68.14	1765165.15	6728995.64

Entrance Radius: 28016.50  
 Exit Radius: 0.00  
 Length: 2000.00  
 Angle: 2^02'42" Left

Constant: 7485.52  
 Long Tangent: 1405.36  
 Short Tangent: 594.79  
 Long Chord: 1999.88  
 Xs: 1999.77  
 Ys: 21.23  
 P: 3.38  
 K: 999.98

Tangent Direction: S 50^15'45" E  
 Radial Direction: S 39^44'15" W  
 Chord Direction: S 51^41'58" E  
 Radial Direction: S 37^41'33" W  
 Tangent Direction: S 52^18'27" E

Element: Linear

ST ( )	A 2731+68.14	1765165.15	6728995.64
POE ( )	A 2740+55.75	1764622.44	6729698.01

Tangent Direction: S 52^18'27" E  
 Tangent Length: 887.61